TYPE APPROVAL

Standard Antennas
Standard VSATs

Change of Status

EXPIRED
<table>
<thead>
<tr>
<th>Certif.</th>
<th>Dated</th>
<th>Std</th>
<th>Supplier</th>
<th>Model</th>
<th>Type</th>
<th>Remarks*</th>
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<tbody>
<tr>
<td>EA-A008</td>
<td>Expiry date: 14-02-05</td>
<td>L, M</td>
<td>Vertex RSI USA</td>
<td>2.4 DPVK</td>
<td>Fixed 2.4 m dual offset Gregorian</td>
<td>2.4 meter fixed general purpose station maximum 58.7 dBW / 40 kHz at ≤ 2.5 Msym/s maximum 52.7 dBW / 40 kHz at &gt; 2.5 Msym/s maximum 74.2 dBW for a standard 5.632 Msym/s digital TV carrier</td>
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<tr>
<td>EA-A009</td>
<td>Expiry date: 14-01-05</td>
<td>L, M</td>
<td>Channel Master International GmbH Germany</td>
<td>62-18452-01</td>
<td>Fixed single p. 1.8 m dual offset Gregorian</td>
<td>1.8 meter fixed general purpose station maximum 58.7 dBW / 40 kHz at ≤ 2.5 Msym/s maximum 52.7 dBW / 40 kHz at &gt; 2.5 Msym/s maximum 74.2 dBW for a standard 5.632 Msym/s digital TV carrier</td>
</tr>
<tr>
<td>EA-A010</td>
<td>Expiry date: 14-01-05</td>
<td>L, M</td>
<td>Channel Master International GmbH Germany</td>
<td>62-24452-01</td>
<td>Fixed 2.4 m dual offset Gregorian</td>
<td>2.4 meter fixed general purpose station maximum 63.6 dBW / 40 kHz at ≤ 2.5 Msym/s maximum 57.6 dBW / 40 kHz at &gt; 2.5 Msym/s maximum 79.1 dBW for a standard 5.632 Msym/s digital TV carrier</td>
</tr>
<tr>
<td>EA-A013</td>
<td>Expired</td>
<td>L, M</td>
<td>Precision Antennas UK</td>
<td>E0T18KUE</td>
<td>Fixed single piece 1.8 m offset</td>
<td>1.8 meter fixed general purpose station maximum 56.4 dBW / 40 kHz at ≤ 2.5 Msym/s maximum 50.4 dBW / 40 kHz at &gt; 2.5 Msym/s maximum 71.9 dBW for a standard 5.632 Msym/s digital TV carrier</td>
</tr>
<tr>
<td>EA-A014</td>
<td>Expiry date: 14-01-05</td>
<td>L, M</td>
<td>Channel Master International GmbH Germany</td>
<td>62-24452-02</td>
<td>Fixed 2.4 m dual offset Gregorian</td>
<td>2.4 meter fixed general purpose station maximum 61.2 dBW / 40 kHz at ≤ 2.5 Msym/s maximum 55.2 dBW / 40 kHz at &gt; 2.5 Msym/s maximum 76.7 dBW for a standard 5.632 Msym/s digital TV carrier</td>
</tr>
</tbody>
</table>

Note: * Authorised EIRP levels are given for locations at the satellite receive beam edge.
<table>
<thead>
<tr>
<th>Certif.</th>
<th>Dated</th>
<th>Std</th>
<th>Supplier</th>
<th>Model</th>
<th>Type</th>
<th>Remarks</th>
</tr>
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<tbody>
<tr>
<td>EA-A026</td>
<td>Suspended 09-02-06</td>
<td>L, M</td>
<td>Andrew Corporation (previously Channel Master LLC)</td>
<td>62-18452-02</td>
<td>Fixed single p. 1.8 m dual offset Gregorian</td>
<td>1.8 meter fixed general purpose station maximum 58.7 dBW / 40 kHz at ≤ 2.5 Msym/s maximum 52.7 dBW / 40 kHz at &gt; 2.5 Msym/s maximum 74.2 dBW for a standard 5.632 Msym/s digital TV carrier</td>
</tr>
<tr>
<td>EA-A027</td>
<td>Expiry date: 16-12-11</td>
<td>M</td>
<td>ASC Signal (previously Andrew Corporation)</td>
<td>62-24452-02</td>
<td>Fixed 2 p. 2.4 m dual offset Gregorian</td>
<td>2.4 m fixed general purpose station 53.2 dBW / 40kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)</td>
</tr>
</tbody>
</table>

Note: * Authorised EIRP levels are given for locations at the satellite receive beam edge.  
** Awaiting re-approval
### Eutelsat Type Approval

#### Ka-Band Skyplex Antennas

**Status: 9 September 2015**

<table>
<thead>
<tr>
<th>Certif.</th>
<th>Dated</th>
<th>Std</th>
<th>Supplier</th>
<th>Model</th>
<th>Type</th>
<th>Remarks*</th>
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<tbody>
<tr>
<td>EA-A021</td>
<td>Pending</td>
<td>L</td>
<td>Patriot  USA</td>
<td>TXEUT-90KA</td>
<td>Fixed single piece 0.9 m offset front fed</td>
<td>0.9 m fixed for Skyplex applications</td>
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<td></td>
<td>37.1 dBW / 40 kHz for digital carriers transmitted to HB6 Skyplex transponders</td>
</tr>
<tr>
<td>Certif.</td>
<td>Dated</td>
<td>Std</td>
<td>Supplier</td>
<td>Model</td>
<td>Type</td>
<td>Remarks</td>
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<tr>
<td>EA-A020</td>
<td>Expiry date: 15-06-12</td>
<td>M</td>
<td>Patriot Antenna Systems USA</td>
<td>TXEUT-120KUDO</td>
<td>Fixed single piece 1.2 m dual optics offset Gregorian</td>
<td>1.2 m fixed for VSAT applications 43.3 dBW / 40kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)</td>
</tr>
<tr>
<td>EA-A034</td>
<td>Expiry date: 16-12-11</td>
<td>M</td>
<td>ASC Signal (previously Andrew Corporation) USA</td>
<td>1.2m RxTx Class I Type 125 12QDKU-1</td>
<td>1 p. 1.2 m front fed offset mode generator</td>
<td>1.2 m fixed broadband interactive antenna 44.3 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)</td>
</tr>
<tr>
<td>EA-A035</td>
<td>Expiry date: 16-12-11</td>
<td>M</td>
<td>ASC Signal (previously Andrew Corporation) USA</td>
<td>Type 961</td>
<td>1 p. 0.96 m front fed offset mode generator</td>
<td>0.96 m fixed broadband interactive antenna 42.9 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)</td>
</tr>
<tr>
<td>EA-A038</td>
<td>Expiry date: 16-12-11</td>
<td>M</td>
<td>Raven</td>
<td>Type 122</td>
<td>1 p. 1.2 m front fed offset mode generator</td>
<td>1.2 m fixed broadband interactive antenna 44.6 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)</td>
</tr>
</tbody>
</table>

*Note: Authorised EIRP levels are given for locations at the satellite receive beam edge (EESS-502 § 6.1 refers).
### Eutelsat Type Approval

**VSAT’s ≤ 1 meter Ø**

**Status: 9 September 2015**

<table>
<thead>
<tr>
<th>Certif.</th>
<th>Dated</th>
<th>Applicant</th>
<th>Model</th>
<th>Antenna Type</th>
<th>Radio Equipment</th>
<th>Diam</th>
<th>G/T (typ)</th>
<th>Authorised EIRP*</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-V010</td>
<td>Pending</td>
<td>Gilat Satellite Networks Ltd Israel</td>
<td>GRF-090/02</td>
<td>Fibo 0.9 m dual offset Gregorian</td>
<td>Gilat LN001210 0.5 or 1.0 Watt</td>
<td>0.9 m</td>
<td>19.5 dB/K</td>
<td>37 dBW / 4 kHz</td>
</tr>
<tr>
<td>EA-V015</td>
<td>Expiry date: 14-01-05</td>
<td>GEC Spacenet USA</td>
<td>Skystar Advantage 0.98 A</td>
<td>Prodelin 1981 0.98 m offset front-fed</td>
<td>Gilat AN3422-01 0.5 Watt</td>
<td>1 m</td>
<td>18.3 dB/K</td>
<td>40 dBW / 4 kHz</td>
</tr>
<tr>
<td>EA-V021</td>
<td>Expiry date: 01-07-08</td>
<td>NEC Corporation Japan</td>
<td>NEXTAR 0.9 m</td>
<td>Fibo 0.9 m dual offset Gregorian</td>
<td>NEC E5847 1 or 2 Watt</td>
<td>0.9 m</td>
<td>19.0 dB/K</td>
<td>37 dBW / 4 kHz</td>
</tr>
<tr>
<td>EA-V022</td>
<td>Expiry date: 14-01-05</td>
<td>Hughes Network Systems UK</td>
<td>PESX000 0.98 m</td>
<td>Prodelin 1981 0.98 m offset front-fed</td>
<td>MTI, 2 Watt</td>
<td>1 m</td>
<td>17.6 dB/K</td>
<td>40 dBW / 4 kHz</td>
</tr>
<tr>
<td>EA-V026</td>
<td>Expiry date: 14-01-05</td>
<td>Scientific Atlanta USA</td>
<td>SkyRelay 3000-098</td>
<td>Prodelin 1981 0.98 m offset front-fed</td>
<td>SA 6605, 0.8 Watt LNB: Norsat or Nichimen</td>
<td>1 m</td>
<td>17.8 dB/K</td>
<td>40 dBW / 4 kHz</td>
</tr>
<tr>
<td>EA-V031</td>
<td>Expiry date: 14-01-05</td>
<td>Channel Master LLC USA</td>
<td>62-96052-01 62-96056-01 0.96 m</td>
<td>Channel Master 1 p. 0.96 m offset front-fed long focal length</td>
<td>Gilat RF 0.5 or 1 Watt LNB: Norsat or NJRC</td>
<td>0.96 m</td>
<td>19.4 dB/K</td>
<td>40 dBW / 4 kHz</td>
</tr>
</tbody>
</table>

Note: * Authorised EIRP levels are given for locations at the satellite receive beam edge.
** Due to design changes affecting performance. Only antennas manufactured before 31/12/2004 meet the cross-polarisation discrimination requirement of 30 dB @ -1 dB contour.
# Eutelsat Type Approval

## VSAT’s ≤ 1 meter ∅ (cont'd)

**Status: 9 September 2015**

<table>
<thead>
<tr>
<th>Certif.</th>
<th>Dated</th>
<th>Applicant</th>
<th>Model</th>
<th>Antenna Type</th>
<th>Radio Equipment</th>
<th>Diam.</th>
<th>G/T (typ)</th>
<th>Authorised EIRP*</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-V033</td>
<td>Expired</td>
<td>NEC Corporation</td>
<td>NEXTAR</td>
<td>Prodelin 1981 0.98 m offset front-fed</td>
<td>NEC G3606 1 or 2 Watt</td>
<td>0.98 m</td>
<td>18.3 dB/K</td>
<td>40 dBW / 4 kHz</td>
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<tr>
<td>No longer valid **</td>
<td>Expiry date: 14-01-05</td>
<td>Japan</td>
<td>0.98 m</td>
<td>1 or 2 Watt</td>
<td>0.98 m 18.3 dB/K 40 dBW / 4 kHz</td>
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<tr>
<td>EA-V034</td>
<td>Expired</td>
<td>Wireless Innovation Ltd (previously Chronos Technology Ltd)</td>
<td>CTL3096</td>
<td>Andrew 62-96056-01 1 p. 0.96 m offset front-fed long focal length</td>
<td>TSAT AS 0.5 Watt</td>
<td>0.96 m</td>
<td>19.7 dB/K</td>
<td>40 dBW / 4 kHz</td>
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<tr>
<td>Expiry date: 16-06-08</td>
<td>UK</td>
<td>0.96 m</td>
<td>19.7 dB/K</td>
<td>40 dBW / 4 kHz</td>
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<tr>
<td>EA-V050</td>
<td>Expired</td>
<td>ASC Signal (previously Andrew Corporation)</td>
<td>62-96056-01</td>
<td>Andrew 1 p. 0.96 m Class II / III offset front-fed long focal length</td>
<td>Gilat AN3422-01 0.5 or 1 Watt LNB: Norsat or NJRC</td>
<td>0.96 m</td>
<td>19.4 dB/K</td>
<td>41.0 dBW / 40 kHz</td>
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<tr>
<td>Expiry date: 01-10-08</td>
<td>USA</td>
<td>0.96 m</td>
<td>19.4 dB/K</td>
<td>41.0 dBW / 40 kHz</td>
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</tbody>
</table>

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** Due to design changes affecting performance. Only antennas manufactured before 31/12/2004 meet the cross-polarisation discrimination requirement of 30 dB @ -1 dB contour.
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<th>Certif.</th>
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<th>Antenna Type</th>
<th>Radio Equipment</th>
<th>Diam.</th>
<th>G/T (typ)</th>
<th>Authorised EIRP*</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-V005</td>
<td>Expired</td>
<td>NEC Corporation Japan</td>
<td>NEXTAR 1.2 m</td>
<td>NEC E8639 1 p. 1.2 m offset front-fed</td>
<td>NEC E5847/D6537 1 or 2 Watt</td>
<td>1.2 m</td>
<td>19.4 dB/K</td>
<td>37 dBW / 4 kHz</td>
</tr>
<tr>
<td>EA-V006</td>
<td>Expired</td>
<td>Channel Master International GmbH Germany</td>
<td>62-12161-04</td>
<td>Channel Master 1 p. 1.2 m offset front-fed ERA feedsystem</td>
<td>Comstream DT7000 2 Watt</td>
<td>1.2 m</td>
<td>20.5 dB/K</td>
<td>53 dBW / 40 kHz for TSR ≤ 2.5 Msym/s</td>
</tr>
<tr>
<td>EA-V008</td>
<td>Expired</td>
<td>Channel Master International GmbH Germany</td>
<td>62-12161-11 62-12161-12</td>
<td>Channel Master 1 p. 1.2 m offset front-fed ERA feedsystem</td>
<td>Fairchild RFT 2000 2 or 4 Watt</td>
<td>1.2 m</td>
<td>20.5 dB/K</td>
<td>53 dBW / 40 kHz for TSR ≤ 2.5 Msym/s</td>
</tr>
<tr>
<td>EA-V011</td>
<td>Pending</td>
<td>Gilat Satellite Networks Ltd Israel</td>
<td>GRF-120/02</td>
<td>Fibo 1.2 m dual offset Gregorian</td>
<td>Gilat LN001210 0.5 or 1.0 Watt</td>
<td>1.2 m</td>
<td>22.0 dB/K</td>
<td>37 dBW / 4 kHz</td>
</tr>
<tr>
<td>EA-V016</td>
<td>No longer valid**</td>
<td>GEC Spacenet USA</td>
<td>Skystar Advantage 1.2 A</td>
<td>Prodelin 1134 1.2 m offset front-fed</td>
<td>Gilat AN3422-01 0.5 Watt</td>
<td>1.2 m</td>
<td>20.5 dB/K</td>
<td>40 dBW / 4 kHz</td>
</tr>
<tr>
<td>EA-V017</td>
<td>Production discontinued</td>
<td>Channel Master International GmbH Germany</td>
<td>62-12161-25 62-12161-26 62-12161-27 62-12161-28</td>
<td>Channel Master 1 p. 1.2 m offset front-fed ERA feedsystem</td>
<td>SSE ASAT-1214 2, 4, 8 or 16 Watt</td>
<td>1.2 m</td>
<td>20.5 dB/K</td>
<td>53 dBW / 40 kHz for TSR ≤ 2.5 Msym/s</td>
</tr>
</tbody>
</table>

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## Eutelsat Type Approval

### VSAT’s = 1.2 meter \( \varnothing \) (cont’d)

<table>
<thead>
<tr>
<th>Certif.</th>
<th>Dated</th>
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<th>Antenna Type</th>
<th>Radio Equipment</th>
<th>Diam.</th>
<th>G/T (typ)</th>
<th>Authorised EIRP*</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-V020</td>
<td>Expiry date: 14-01-05</td>
<td>L.TEQ UK</td>
<td>ALPHA/12POS</td>
<td>Prodelin 1134 1.2 m offset front-fed</td>
<td>EF Data KST-2000 or KST-12000 (2/4 respectively 8/16 Watt)</td>
<td>1.2 m</td>
<td>19.7 dB/K</td>
<td>40 dBW / 4 kHz</td>
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<tr>
<td>EA-V023</td>
<td>Expiry date: 14-01-05</td>
<td>Hughes Network Systems UK</td>
<td>PESX000 1.2 m</td>
<td>Prodelin 1134 1.2 m offset front-fed</td>
<td>MTI, 2 Watt</td>
<td>1.2 m</td>
<td>19.3 dB/K</td>
<td>40 dBW / 4 kHz</td>
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<td>EA-V025</td>
<td>Expiry date: 14-01-05</td>
<td>Channel Master LLC USA</td>
<td>62-12356-51</td>
<td>Channel Master 1 p. 1.2 m offset front-fed</td>
<td>Gilat AN3422-01 0.5 or 1.0 Watt</td>
<td>1.2 m</td>
<td>21.0 dB/K</td>
<td>40 dBW / 4 kHz</td>
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<td>62-12356-52</td>
<td>long focal length</td>
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<td>EA-V027</td>
<td>Expiry date: 14-01-05</td>
<td>Scientific Atlanta USA</td>
<td>SkyRelay 3000-120</td>
<td>Prodelin 1134 1.2 m offset front-fed</td>
<td>SA 6605, 0.8 Watt LNB: Norsat or Nichimen</td>
<td>1.2 m</td>
<td>19.6 dB/K</td>
<td>40 dBW / 4 kHz</td>
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<tr>
<td>EA-V030</td>
<td>Expiry date: 14-01-05</td>
<td>Channel Master International GmbH Germany</td>
<td>62-12456-53 62-12456-54</td>
<td>Channel Master 1 p. 1.2 m offset front-fed</td>
<td>SSE K-STAR 2 or 4 Watt</td>
<td>1.2 m</td>
<td>21.0 dB/K</td>
<td>40 dBW / 4 kHz</td>
</tr>
</tbody>
</table>

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### VSAT’s = 1.2 meter Ø (cont’d)

#### Status: 9 September 2015

<table>
<thead>
<tr>
<th>Certif.</th>
<th>Dated</th>
<th>Applicant</th>
<th>Model</th>
<th>Antenna Type</th>
<th>Radio Equipment</th>
<th>Diam.</th>
<th>G/T (typ)</th>
<th>Authorised EIRP*</th>
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</thead>
<tbody>
<tr>
<td>EA-V037 Revoked</td>
<td>Expiry date: 05-10-05</td>
<td>Sea Tel USA</td>
<td>4996T 7/8 w</td>
<td>Sea Tel 1.2 m dual offset Gregorian</td>
<td>CODAN S/N 5900 W 2, 4, 8, 16 W</td>
<td>1.2 m</td>
<td>20 dB/K</td>
<td>40 dBW / 4 kHz</td>
</tr>
<tr>
<td>EA-V039 Pending</td>
<td>Pending</td>
<td>Gilat Satellite Networks Ltd Israel</td>
<td>Skystar 1.2 m</td>
<td>Prodelin 1132</td>
<td>Gilat 1 Watt Type Approved</td>
<td>1.2 m</td>
<td>20.5 dB/K</td>
<td>40 dBW / 4 kHz</td>
</tr>
<tr>
<td>EA-V048 Expired</td>
<td>Expiry date: 16-06-08</td>
<td>Andrew Corporation (previously Channel Master LLC) USA</td>
<td>62-12356-11</td>
<td>Andrew 1 p. 1.2 m Class I offset front-fed long focal length</td>
<td>Gilat AN3422-01 0.5 or 1 Watt</td>
<td>1.2 m</td>
<td>21.0 dB/K</td>
<td>40 dBW / 4 kHz</td>
</tr>
<tr>
<td>EA-V049 Expired</td>
<td>Expiry date: 16-06-08</td>
<td>Andrew Corporation (previously Channel Master LLC) USA</td>
<td>62-12456-01</td>
<td>Andrew 1 p. 1.2 m Class III offset front-fed long focal length</td>
<td>Gilat AN3422-01 0.5 or 1 Watt</td>
<td>1.2 m</td>
<td>21.0 dB/K</td>
<td>40 dBW / 4 kHz</td>
</tr>
<tr>
<td>EA-V051 Expired</td>
<td>Expiry date: 01-10-08</td>
<td>Andrew Corporation (previously Channel Master LLC) USA</td>
<td>62-12362-01</td>
<td>Andrew 1 p. 1.2 m Class II offset front-fed long focal length</td>
<td>Gilat AN3422-01 0.5 or 1 Watt</td>
<td>1.2 m</td>
<td>21.0 dB/K</td>
<td>45.3 dBW / 4 kHz</td>
</tr>
<tr>
<td>EA-V054 Production discontinued</td>
<td>Expiry date: 09-09-15</td>
<td>ASC Signal (previously Andrew Corporation) USA</td>
<td>1.2 m RxTx Class I MIL-12QDKU-1</td>
<td>ASC 1 p. 1.2 m Class I offset front-fed</td>
<td>30 W ND Satcom RFT 5000 Ku-Band Invacom SPV-30 SM LNB</td>
<td>1.2 m</td>
<td>21.5 dB/K</td>
<td>42.6 dBW / 40 kHz</td>
</tr>
</tbody>
</table>

Note: * Authorised EIRP levels are given for locations at the satellite receive beam edge.
### Eutelsat Type Approval

**Status:** 9 September 2015

<table>
<thead>
<tr>
<th>Certif.</th>
<th>Dated</th>
<th>Applicant</th>
<th>Model</th>
<th>Antenna Type</th>
<th>Radio Equipment</th>
<th>Diam.</th>
<th>G/T (typ)</th>
<th>Authorised EIRP*</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-V003</td>
<td></td>
<td>S+AS Limited UK</td>
<td>SF18.ST</td>
<td>Precision Antennas 1 p. 1.8 m front fed, J hook</td>
<td>SSE ASAT-1214 S/N or Kstar 2 to 25 Watt Single or redundant</td>
<td>1.8 m</td>
<td>22.3 dB/K</td>
<td>37 dBW / 4 kHz</td>
</tr>
<tr>
<td>EA-V004</td>
<td></td>
<td>S+AS Limited UK</td>
<td>SF18.DT7000</td>
<td>Precision Antennas 1 p. 1.8 m front fed, J hook</td>
<td>Comstream DT7000 2 Watt</td>
<td>1.8 m</td>
<td>22.3 dB/K</td>
<td>37 dBW / 4 kHz</td>
</tr>
<tr>
<td>EA-V007</td>
<td></td>
<td>Channel Master International GmbH Germany</td>
<td>62-18161-04</td>
<td>Channel Master 1 p. 1.8 m offset front-fed ERA feedsystem</td>
<td>Comstream DT7000 2 Watt</td>
<td>1.8 m</td>
<td>24.0 dB/K</td>
<td>56.5 dBW / 40 kHz for TSR ≤ 2.5 Msym/s</td>
</tr>
<tr>
<td>EA-V009</td>
<td></td>
<td>Channel Master International GmbH Germany</td>
<td>62-18161-11 62-18161-12</td>
<td>Channel Master 1 p. 1.8 m offset front-fed ERA feedsystem</td>
<td>Fairchild RFT 2000 2 or 4 Watt</td>
<td>1.8 m</td>
<td>24.0 dB/K</td>
<td>56.5 dBW / 40 kHz for TSR ≤ 2.5 Msym/s</td>
</tr>
<tr>
<td>EA-V018</td>
<td></td>
<td>Channel Master International GmbH Germany</td>
<td>62-18161-25 62-18161-26 62-18161-27 62-18161-28</td>
<td>Channel Master 1 p. 1.8 m offset front-fed ERA feedsystem</td>
<td>SSE ASAT-1214 2, 4, 8 or 16 Watt</td>
<td>1.8 m</td>
<td>24.0 dB/K</td>
<td>56.5 dBW / 40 kHz for TSR ≤ 2.5 Msym/s</td>
</tr>
</tbody>
</table>

Note: * Authorised EIRP levels are given for locations at the satellite receive beam edge.
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<th>Dated</th>
<th>Applicant</th>
<th>Model</th>
<th>Antenna Type</th>
<th>Radio Equipment</th>
<th>Diam.</th>
<th>G/T (typ)</th>
<th>Authorised EIRP*</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-V024</td>
<td>Expiry date: 14-01-05</td>
<td>Channel Master International GmbH Germany</td>
<td>62-18161-40 62-18161-41 62-18161-42 62-18161-43</td>
<td>Channel Master 1 p. 1.8 m offset front-fed ERA feed system</td>
<td>Sierracom 3100 1, 2, 4 or 8 Watt</td>
<td>1.8 m</td>
<td>24.0 dB/K</td>
<td>56.5 dBW / 40 kHz for TSR ≤ 2.5 Msym/s</td>
</tr>
<tr>
<td>EA-V028</td>
<td>Expiry date: 14-01-05</td>
<td>Scientific Atlanta USA</td>
<td>SkyRelay 3000-180</td>
<td>Prodelin 1194 1.8 m offset front-fed</td>
<td>SA 6605, 0.8 Watt LNB: Norsat or Nichimen</td>
<td>1.8 m</td>
<td>23.1 dB/K</td>
<td>40 dBW / 4 kHz</td>
</tr>
<tr>
<td>EA-V035</td>
<td>Expiry date: 13-06-08</td>
<td>Precision Antennas UK</td>
<td>EOT18KUE/T</td>
<td>Precision Antennas 1.8 m single piece offset</td>
<td>TSAT/AS 0.5 Watt</td>
<td>1.8 m</td>
<td>22.7 dB/K</td>
<td>40 dBW / 4 kHz</td>
</tr>
</tbody>
</table>

Note: * Authorised EIRP levels are given for locations at the satellite receive beam edge.
# Eutelsat Type Approval

**VSAT’s = 2.4 meter Ø**

**Status: 9 September 2015**

<table>
<thead>
<tr>
<th>Certif.</th>
<th>Dated</th>
<th>Applicant</th>
<th>Model</th>
<th>Antenna Type</th>
<th>Radio Equipment</th>
<th>Diam.</th>
<th>G/T (typ)</th>
<th>Authorised EIRP*</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-V001</td>
<td>Production discontinued</td>
<td>S+AS Limited UK</td>
<td>SF24.ST</td>
<td>Precision Antennas 2 p. 2.4 m front-fed, J hook</td>
<td>SSE ASAT-1214 S/N or Kstar 2 to 25 Watt Single or redundant</td>
<td>2.4 m</td>
<td>25.0 dB/K</td>
<td>37 dBW / 4 kHz</td>
</tr>
<tr>
<td>EA-V002</td>
<td>Production discontinued</td>
<td>S+AS Limited UK</td>
<td>SF24.DT7000</td>
<td>Precision Antennas 2 p. 2.4 m front-fed, J hook</td>
<td>Comstream DT7000 2 Watt</td>
<td>2.4 m</td>
<td>25.0 dB/K</td>
<td>37 dBW / 4 kHz</td>
</tr>
<tr>
<td>EA-V012</td>
<td>Expired</td>
<td>Matra Marconi Space UK</td>
<td>MMS-PML-24</td>
<td>Precision Antennas 2 p. 2.4 m front-fed, J hook</td>
<td>Skydata 2401-AS-A 2, 3, 8 or 16 Watt Single &amp; redundant</td>
<td>2.4 m</td>
<td>25.5 dB/K</td>
<td>37 dBW / 4 kHz</td>
</tr>
<tr>
<td>EA-V019</td>
<td>Production discontinued</td>
<td>Channel Master International GmbH Germany</td>
<td>62-24161-21, 62-24161-22, 62-24161-23, 62-24161-24</td>
<td>Channel Master 2 p. 2.4 m offset front-fed ERA feedsystem</td>
<td>SSE K-STAR 2, 4, 8 or 16 Watt</td>
<td>2.4 m</td>
<td>25.2 dB/K</td>
<td>40 dBW / 4 kHz</td>
</tr>
<tr>
<td>EA-V029</td>
<td>Expired</td>
<td>Scientific Atlanta USA</td>
<td>SkyRelay 3000-240</td>
<td>Prodelin 1244 model 930, 931, 933 2.4 m offset front-fed</td>
<td>SA 6605, 0.8 Watt LNB: Norsat or Nichimen</td>
<td>2.4 m</td>
<td>25.5 dB/K</td>
<td>40 dBW / 4 kHz</td>
</tr>
</tbody>
</table>

Note: * Authorised EIRP levels are given for locations at the satellite receive beam edge.
**Applicant:**
Vertex RSI  
2600 North Longview Street  
Kilgore, TX 75662  
USA

**Tel:** +1 903 988 6107  
**Fax:** +1 903 988 6867  
mailto:alan.pollard@gdsatcom.com

**Certificate:**  
EA-A008

**Antenna:**  
2.4 DPVK

**Diameter:**  
2.4 m

**Standard:**  
L, M

**Approval date:**  
19-01-1998

**Expiry date:**  
14-02-2005

**System Description:**
Fixed earth station for low and medium rate digital traffic. Offset dual reflector configuration. Two piece 2.4 m aluminium main reflector. One Rx and one Tx port. Pedestal type mount.

**Configurations:**
One standard configuration. De-icing option.

**Maximum Allowed EIRP:**
58.7 dBW / 40 kHz for digital carriers with symbol rate ≤ 2.5 MSym/s  
52.7 dBW / 40 kHz for digital carriers with symbol rate > 2.5 MSym/s  
74.2 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDS™ (EESS-400, issue 11 - rev 0, §6.1 and EESS-502, issue 9 - rev 1, §6.1 refers).

**Tx Frequency:**  
13.75 - 14.50 GHz

**Rx Frequency:**  
10.95 - 12.75 GHz

**Tx Gain:**
48.7 dBi (typical)

**Rx Gain:**
47.3 dBi (typical)

**Tx XPD:**
>35 dB

**Rx XPD:**
>35 dB

**Remarks:** None
Applicant:
Channel Master International GmbH
Julius Moser Strasse 13
75179 Pforzheim
Germany

Tel: +49 7231 145 570
Fax: +49 7234 145 5710
mailto:m.pfrommer@channel-master-int.com

Certificate:
EA-A009

Antenna:
62-18452-01

Diameter:
1.8 m

Standard:
L, M

Approval date:
19-01-1999

Revision 1 date:
19-05-2000

Expiry date:
14-01-2005

System Description:
General purpose earth station for digital transmission up to higher bit rates. Dual optics offset Gregorian configuration. Single piece SMC main reflector, aluminium sub reflector in compact configuration. Two port Channel Master OMT, dedicated Tx and Rx.

Models Available:
One standard configuration. Optional de-icing systems for feed and main reflector. Optional matching non-penetrating roofmount.

Maximum Allowed EIRP:
58.7 dBW / 40 kHz for digital carriers with symbol rate ≤ 2.5 MSym/s
52.7 dBW / 40 kHz for digital carriers with symbol rate > 2.5 MSym/s
74.2 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, ATLANTIC BIRDs™ (EESS-400, issue 11 - rev 0, §6.1 and EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Frequency:
13.75 - 14.50 GHz

Rx Frequency:
10.70 - 12.75 GHz

Tx Gain:
46.7 dBi at 14.25 GHz (typical)

Rx Gain:
45.0 dBi at 11.70 GHz (typical)

Tx XPD:
>35 dB within 1 dB contour

Rx XPD:
>35 dB within 1 dB contour

Remarks:
Production discontinued
Applicant:
Channel Master International GmbH
Julius Moser Strasse 13
75179 Pforzheim
Germany
Tel: +49 7231 145 570
Fax: +49 7234 145 5710
mailto:m.pfrommer@channel-master-int.com

Certificate:
EA-A010

Antenna:
62-24452-01

Diameter:
2.4 m

Standard:
L, M

Approval date:
19-01-1999

Expiry date:
14-01-2005

System Description:
General purpose earth station for digital transmission up to higher bit rates. Dual optics offset Gregorian configuration. Two piece SMC main reflector, aluminium sub reflector in compact configuration. Two port OMT, dedicated Tx and Rx.

Models Available:
One standard configuration. Optional de-icing systems for feed and main reflector. Optional matching non-penetrating roofmount.

Maximum Allowed EIRP:
63.6 dBW / 40 kHz for digital carriers with symbol rate ≤ 2.5 MSym/s
57.6 dBW / 40 kHz for digital carriers with symbol rate > 2.5 MSym/s
79.1 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, ATLANTIC BIRDS™ (EESS-400, issue 11 - rev 0, §6.1 and EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Frequency:
13.75 - 14.50 GHz

Rx Frequency:
10.70 - 12.75 GHz

Tx Gain:
49.6 dBi (typical)

Rx Gain:
47.9 dBi (typical)

Tx XPD:
>35 dB anywhere

Rx XPD:
>35 dB anywhere

Remarks:
Production discontinued
Applicant:
Precision Antennas
Masons Road
Stratford-upon-Avon
Warwickshire CV37 9NU
United Kingdom

Tel: +44 1789 266 131
Fax:+44 1789 298 497
mailto:chriscox@andrew.com

Certificate:
EA-A013

Antenna:
EOT18KUE

Diameter:
1.8 m

Standard:
L, M

Approval date:
27-01-2000

Expiry date:
13-06-2008

System Description:
General purpose earth station for analogue and digital transmission. Offset fed, prime focus configuration. Metallic main reflector. Two port OMT with compensated feed.

Configurations:
One standard configuration.

Maximum Allowed EIRP:
56.4 dBW / 40 kHz for digital carriers with symbol rate ≤ 2.5 MSym/s
50.4 dBW / 40 kHz for digital carriers with symbol rate > 2.5 MSym/s
71.9 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDs™ (EESS-400, issue 11 - rev 0, §6.1 and EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Frequency:
14.00 - 14.50 GHz

Rx Frequency:
10.95 - 12.75 GHz

Tx Gain:
46.4 dBi (typical at 14.25 GHz)

Rx Gain:
45.2 dBi (typical at 11.7 GHz)

Tx XPD:
>35 dB within 1 dB contour

Rx XPD:
>27 dB within 1 dB contour

Remarks: None
Applicant: Channel Master International GmbH
Julius Moser Strasse 13
75179 Pforzheim
Germany
Tel: +49 7231 145 570
Fax: +49 7234 145 5710
mailto:m.pfrommer@channel-master-int.com

Certificate: EA-A014
Antenna: 62-24452-02
Diameter: 2.4 m
Standard: L, M

Approval date: 15-09-2000
Expiry date: 14-01-2005

System Description:
General purpose earth station for digital transmission up to higher bit rates. Dual optics offset Gregorian configuration. Two piece SMC main reflector, aluminium sub reflector in compact configuration. Two port Channel Master OMT, dedicated Tx and Rx.

Models Available:
One standard configuration. Optional de-icing systems for feed and main reflector. Optional matching non-penetrating roofmount.

Maximum Allowed EIRP:
61.2 dBW / 40 kHz for digital carriers with symbol rate < 2.5 MSym/s
55.2 dBW / 40 kHz for digital carriers with symbol rate > 2.5 MSym/s
76.7 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, ATLANTIC BIRDS™ (EESS-400, issue 11 - rev 0, §6.1 and EESS-502, issue 9 - rev 1, §6.1 refers).

<table>
<thead>
<tr>
<th>Tx Frequency:</th>
<th>Rx Frequency:</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.75 - 14.50 GHz</td>
<td>10.70 - 12.75 GHz</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tx Gain:</th>
<th>Rx Gain:</th>
</tr>
</thead>
<tbody>
<tr>
<td>49.2 dBi (typical)</td>
<td>47.5 dBi (typical)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tx XPD:</th>
<th>Rx XPD:</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;35 dB within 1 dB contour</td>
<td>&gt;35 dB within 1 dB contour</td>
</tr>
</tbody>
</table>

Remarks:
Production discontinued
Applicant:
Patriot Antenna Systems
704 North Clark Street
Albion, MI 49224
USA
Tel: +1 517 629 5990
Fax: +1 517 629 6690
mailto: jrobinson@sepatriot.com

Certificate:
EA-A020

Antenna:
TXEUT-120KUDO

Diameter:
1.2 m

Standard:
M

Approval date:
02-06-2003

Expiry date:
15-06-2012

System Description:
Fixed earth station for low and medium rate digital traffic; particularly suited for VSAT applications. Dual optics Offset Gregorian configuration. Single piece 1.2 m galvanised steel main reflector. Two port die-cast OMT. Pedestal Az El Mount in manual version only.

Configurations:
One standard configuration TXEUT-120KUDO.

Maximum Allowed EIRP:
43.3 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)

Tx Frequency:
14.0 - 14.50 GHz

Rx Frequency:
10.70 - 12.75 GHz

Tx Gain:
43.3 dBi (typical at 14.25 GHz)

Rx Gain:
41.7 dBi (typical at 11.725 GHz)

Tx XPD:
>35 dB within 1 dB contour

Rx XPD:
>35 dB within 1 dB contour

Remarks: None
**Applicant:**  
Patriot Antenna Systems  
704 North Clark Street  
Albion, MI 49224  
USA  
Tel: +1 517 629 5990  
Fax: +1 517 629 6690  
mailto:stevep@sepatriot.com

**Certificate:**  
EA-A021

**Antenna:**  
TXEUT-90KA

**Diameter:**  
0.9 m

**Standard:**  
L

**Approval date:**  
Pending

---

**System Description:**  
Fixed earth station for low and medium rate digital traffic for Eutelsat HB6 Skyplex applications. Front fed offset configuration. Single piece 0.9 m galvanised steel main reflector. Two port die-cast OMT. Az El Mount with reinforced stell boom arm.

**Configurations:**  
One standard configuration TXEUT-90KA. Option for a small non penetrating mount with pad.

**Maximum Allowed EIRP:**  
37.1 dBW / 40 kHz for digital carriers transmitted to HB6™ Skyplex transponders anywhere at the HB6™ satellite receive G/T contours >10 dB/K.

---

**Tx Frequency:**  
29.50 - 30.00 GHz

**Rx Frequency:**  
19.70 - 20.20 GHz

**Tx Gain:**  
47.1 dBi (typical at 29.75 GHz)

**Rx Gain:**  
43.6 dBi (typical at 19.95 GHz)

**Tx XPD:**  
>25 dB within 1 dB contour

**Rx XPD:**  
>25 dB within 1 dB contour

**Remarks:** Utilisation of these antennas is not allowed for transmission to transponders K158 or K159 in channels that overlap in frequency with the opposite polarisation, from a location where the G/T of the targetted transponder is lower than the G/T of the opposite transponder.
Eutelsat
Type Approval Summary Sheet

Applicant:
Andrew Corporation (previously Channel Master LLC)
1315 Industrial Park Drive
Smithfield, N.C. 27577
USA
Tel: +1 919 989 1701
Fax: +1 919 989 2200
mailto:peter.gardner@andrew.com

Certificate:
EA-A026

Antenna:
62-18452-02

Diameter:
1.8 m

Standard:
L, M

Approval date:
07-01-2005

Expiry date:
09-02-2006*

System Description:
General purpose earth station for digital transmission up to highest bit rates. Dual optics offset Gregorian configuration. Single piece SMC main reflector, aluminium sub-reflector in compact configuration. Two port Andrew OMT, dedicated Tx and Rx.

Configurations:
One standard configuration. Optional de-icing system for feed, main and sub-reflector. Optional matching non-penetrating roofmounts.

Maximum Allowed EIRP density:
58.7 dBW/40kHz for digital carriers with symbol rate \( \leq 2.5 \text{ Msym/s} \)
52.7 dBW/40kHz for digital carriers with symbol rate \( > 2.5 \text{ Msym/s} \)
74.2 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDs™ (EESS-400, issue 11 - rev 0, §6.1 and EESS-502, issue 9 - rev. 1, §6.1 refers).

Tx Frequency:
13.75-14.50 GHz

Rx Frequency:
10.70-12.75 GHz

Tx Gain:
46.7 dBi (typical at 14.25 GHz)

Rx Gain:
45.0 dBi (typical at 11.70 GHz)

Tx XPD:
>35 dB within -1 dB contour

Rx XPD:
>35 dB within –1 dB contour

Remarks:
*Awaiting re-approval
Applicant: ASC Signal (previously Andrew Corporation)
620 North Greenfield Parkway,
Garner, N.C. 27529
USA
Tel: +1 919 329 8721
Fax: +1 919 329 8701
mailto: peter.gardner@ascsignal.com

Certificate:
EA-A027

Antenna:
62-24452-02

Diameter:
2.4 m

Standard:
M

Approval date:
07-01-2005

Revision 1 date:
31-07-2008

Expiry date:
16-11-2011

System Description:
General purpose earth station for digital transmission up to highest bit rates. Dual optics
offset Gregorian configuration. Two piece SMC main reflector, aluminium sub-reflector in
compact configuration. Two port ASC Signal Corporation OMT.

Configurations:
One standard configuration. Optional de-icing system for feed, main and sub-reflector.
Optional matching non-penetrating roofmount.

Maximum Allowed EIRP density:
53.2 dBW/40kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K
(EESS 502 § 6.1 refers).

Tx Frequency: 13.75-14.50 GHz
Rx Frequency: 10.70-12.75 GHz
Tx Gain: 49.2 dBi (typical at 14.25 GHz)
Rx Gain: 47.5 dBi (typical at 11.70 GHz)
Tx XPD: >35 dB within -1 dB contour
Rx XPD: >35 dB within –1 dB contour

Remarks: None
Applicant:
ASC Signal
(previously Andrew Corporation)
620 North Greenfield Parkway,
Garner, N.C. 27529
USA
Tel:  +1 919 329 8721
Fax:  +1 919 329 8701
mailto: peter.gardner@ascsignal.com

Certificate:
EA-A034

Antenna:
1.2 m RXTx Class I
Type 125
12QDKU-1

Diameter:
1.2 m

Standard:
M

Approval date:
20-03-2008

Revision 1 date:
27-11-2008

Expiry date:
16-11-2011

System Description:
Long focal length earth station for low and medium rate digital traffic; particularly suited for
VSAT applications. Front fed offset configuration, feed with mode generator and rotary joint.
Single piece 1.2 m SMC reflector. Two port die-cast OMT. Az El Mount with steel boom arm.

Configurations:
Two standard configurations: type125 (fixed applications); 12QDKU-1 (Quick Deploy Tripod).

Maximum Allowed EIRP:
44.3 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K
(EESS 502 § 6.1 refers).

Tx Frequency:
13.75 – 14.50 GHz

Rx Frequency:
10.70-12.75 GHz

Tx Gain:
43.3 dBi (typical at 14.25 GHz)

Rx Gain:
42.0 dBi (typical at 11.70 GHz)

Tx XPD:
>30 dB within the mainlobe -1 dB contour

Rx XPD:
>26 dB within the mainlobe -1 dB contour

Remarks:
Class I is designed for operating with an integrated transceiver assembly (or BUC+LNB
assemblies) weighting a maximum of 1.7 Kg.

To be operated for maximum wind speeds of up to 72 Km/h (Type 125) or 50 Km/h (Type
12QDKU-1) corresponding to a pointing error equal to 0.2°.
Applicant:
ASC Signal
(previously Andrew Corporation)
620 North Greenfield Parkway,
Garner, N.C. 27529
USA
Tel: +1 919 329 8721
Fax: +1 919 329 8701
mailto: peter.gardner@ascsignal.com

Certificate:
EA-A035

Antenna:
Type 961

Diameter:
0.96 m

Standard:
M

Approval date:
01-04-2008

Expiry date:
16-11-2011

System Description:
Long focal length earth station for low and medium rate digital traffic; particularly suited for VSAT applications. Front fed offset configuration, feed with mode generator and rotary joint. Single piece 0.96 m SMC reflector. Two port die-cast OMT. Az/El Mount with steel boom arm.

Configurations:
One standard configuration: type 961 Class I (fixed applications).

Maximum Allowed EIRP:
42.9 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers).

Tx Frequency:
13.75 – 14.50 GHz

Rx Frequency:
10.70-12.75 GHz

Tx Gain:
41.2 dBi (typical at 14.25 GHz)

Rx Gain:
39.5 dBi (typical at 11.70 GHz)

Tx XPD:
>30 dB within the mainlobe -1 dB contour

Rx XPD:
>28 dB within the mainlobe -1 dB contour

Remarks:
Class I is designed for operating with an integrated transceiver assembly (or BUC+LNB assemblies) weighting a maximum of 1.7 Kg.

To be operated for maximum wind speeds of up to 72 Km/h.
Applicant:
Raven
Metcalf Drive
Altham Ind Est
Accrington
BB5 5TU
England
Tel: +44 1383 625760
Mail: david.geen@raven.co.uk

Certificate:
EA-A038

Antenna:
Type 122

Diameter:
1.2 m

Standard:
M

Approval date:
29-06-2009

Expiry date:
16-11-2011

System Description:
Single-reflector earth station for low and medium rate digital traffic; particularly suited for VSAT applications. Front fed offset configuration, feed with mode generator and rotary joint. Single piece 1.2m SMC reflector. Two port die-cast OMT. Az/El Mount with steel boom arm.

Configurations:
One standard configuration.

Maximum Allowed EIRP:
44.6 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers).

Tx Frequency:
14.0 – 14.50 GHz

Rx Frequency:
10.70-12.75 GHz

Tx Gain:
43.6 dBi (typical at 14.25 GHz)

Rx Gain:
42.0 dBi (typical at 11.95 GHz)

Tx XPD:
>30 dB within the mainlobe -1 dB contour

Rx XPD:
>24 dB within the mainlobe -1 dB contour

Remarks:
Class I is designed for operation with BUC weight not exceeding 1.7 Kg.

To be operated for maximum wind speeds of up to 72 Km/h corresponding to a pointing error equal to 0.2°.
**Applicant:**
S+AS Limited  
6, The Walled Garden  
Wallhouse, Torpichen  
West Lothian EH48 4NQ  
Scotland  
Tel: +44 1506 636 314  
Fax: +44 1506 636 315  
mailto:mik@sasltd.com

**Certificate:**  
EA-V001

**VSAT:**  
SF24.ST

**Diameter:**  
2.4 m

**Approval date:**  
10-04-1995

**Expiry date:**  
14-01-2005

**System Description:**
VSAT terminal based on Precision Metal E2412HP/02 antenna (2.4 m, two piece, symmetrical, J hook front fed). RF equipment: SSE Technologies Kstar or ASAT-1214 S/N Ku band transceiver(s), with power amplifier of 2, 4, 8, 16, 20 or 25 Watt.

**Models Available:**
According to the following expression:  
SF24.ST(x)(S/N/K)[R]

where:
- x = amplifier output power (i.e. 02, 04, 08, 16, 20 or 25)
- ASAT S/N or Kstar transceiver type
- R indicates redundancy (no R = single thread).

**Maximum Allowed EIRP:**
37 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDs™ (EESS-502, issue 9 - rev 1, §6.1 refers).

**Tx Gain:**
48.3 dBi (typical)

**G/T:**
25.0 dB/K (typical)

**Tx XPD:**
>35 dB within 1 dB contour

**Rx XPD:**
>35 dB within 1 dB contour

**Remarks:**
Production discontinued
**Applicant:**
S+AS Limited
6, The Walled Garden
Wallhouse, Torpichen
West Lothian EH48 4NQ
Scotland

Tel:  +44 1506 636 314
Fax:  +44 1506 636 315
mailto:mik@sasltd.com

**Certificate:**
EA-V002

**VSAT:**
SF24.DT7000

**Diameter:**
2.4 m

**Approval date:**
16-06-1995

**Expiry date:**
14-01-2005

---

**System Description:**
VSAT terminal based on Precision Metal E2412HP/02 antenna (2.4 m, two piece, symmetrical, J hook front-fed). RF equipment: Comstream DT7000 Ku band transceiver with power amplifier of 2 Watt. Single thread.

**Models Available:**
One standard configuration.

**Maximum Allowed EIRP:**
37 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDS™ (EESS-502, issue 9 - rev 1, §6.1 refers).

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<tr>
<th>TX Gain:</th>
<th>G/T:</th>
</tr>
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<tr>
<th>TX XPD:</th>
<th>RX XPD:</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;35 dB within 1 dB contour</td>
<td>&gt;35 dB within 1 dB contour</td>
</tr>
</tbody>
</table>

**Remarks:**
Production discontinued
Applicant:
S+AS Limited
6, The Walled Garden
Wallhouse, Torpichen
West Lothian EH48 4NQ
Scotland
Tel: +44 1506 636 314
Fax: +44 1506 636 315
mailto:mik@sasltd.com

Certificate:
EA-V003

VSAT:
SF18.ST

Diameter:
1.8 m

Approval date:
31-08-1995

Expiry date:
14-01-2005

System Description:
VSAT terminal based on Precision Metal E1812HP/01 antenna (1.8 m, one piece, symmetrical, J hook front-fed). RF equipment: SSE Technologies Kstar or ASAT-1214 S/N Ku band transceiver(s), with power amplifier of 2, 4, 8, 16, 20 or 25 Watt.

Models Available:
According to the following expression:
SF18.ST(x)(S/N/K)[R]

where:
x = amplifier output power (i.e. 02, 04, 08, 16, 20 or 25)
ASAT S/N or Kstar transceiver type
R indicates redundance (no R = single thread).

Maximum Allowed EIRP:
37 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, ATLANTIC BIRDS™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain:
45.8 dBi (typical)

G/T:
22.3 dB/K (typical)

Tx XPD:
>35 dB within 1 dB contour

Rx XPD:
>35 dB within 1 dB contour

Remarks:
Production discontinued
**Applicant:**
S+AS Limited  
6, The Walled Garden  
Wallhouse, Torpichen  
West Lothian EH48 4NQ  
Scotland  
Tel: +44 1506 636 314  
Fax: +44 1506 636 315  
mailto:mik@sasltd.com

**Certificate:**  
EA-V004

**VSAT:**  
SF24.DT7000

**Diameter:**  
1.8 m

**Approval date:**  
01-09-1995

**Expiry date:**  
14-01-2005

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**System Description:**
VSAT terminal based on Precision Metal E1812HP/01 antenna (1.8 m, one piece, symmetrical, J hook front-fed). RF equipment: Comstream DT7000 Ku band transceiver with power amplifier of 2 Watt. Single thread.

**Models Available:**
One standard configuration.

**Maximum Allowed EIRP:**
37 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDS™ (EESS-502, issue 9 - rev 1, §6.1 refers).

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<th><strong>Tx Gain:</strong></th>
<th><strong>G/T:</strong></th>
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<tr>
<th><strong>Tx XPD:</strong></th>
<th><strong>Rx XPD:</strong></th>
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<tbody>
<tr>
<td>&gt;35 dB within 1 dB contour</td>
<td>&gt;35 dB within 1 dB contour</td>
</tr>
</tbody>
</table>

**Remarks:**
Production discontinued
Applicant:
NEC Corporation, Yokohama, Japan
represented by:
NEC Benelux
Antareslaan 65 PO Box 3110
NL-2132 KC JE Hoofddorp
The Netherlands
Tel: +31 23 5548 481
Fax: +31 23 5548 588
mailto:alex.zehnder@nl.neceur.com

Certificate:
EA-V005

VSAT:
NEXTAR 1.2 m

Diameter:
1.2 m

Approval date:
19-10-1995

Expiry date:
07-07-2008

System Description:
VSAT terminal consisting of NEC 1.2 m single piece front-fed offset antenna with NEC focal plane outdoor unit and indoor units for AA/TDMA, In-Band Voice and SCPC Voice and/or Data.

Models Available:
One standard antenna configuration model E8639 with either a D6537 or E5847 outdoor unit with 1 or 2 Watt SSPA, and indoor unit(s) of model D8436, E3096 or E8200.

Maximum Allowed EIRP:
37 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, ATLANTIC BIRDS™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain:
43.0 dBi (typical)

G/T:
19.4 dB/K (typical)

Tx XPD:
>30 dB within 1 dB contour

Rx XPD:
>27 dB within 1 dB contour

Remarks: None
Applicant: Channel Master International GmbH
Julius Moser Strasse 13
75179 Pforzheim
Germany
Tel: +49 7231 145 570
Fax: +49 7234 145 5710
mailto:m.pfrommer@channel-master-int.com

Certificate: EA-V006

VSAT: 62-12161-04

Diameter: 1.2 m

Approval date: 29-03-1996

Expiry date: 14-01-2005

System Description:
VSAT terminal consisting of Channel Master 1.2 m single piece front-fed offset antenna, equipped with ERA (compensated) feed system. Polarisation adjustment by rotation of entire antenna around boresight. RF equipment: single thread Comstream DT7000 Ku band transceiver with 2 Watt power amplifier.

Models Available:
One standard configuration.

Maximum Allowed EIRP:
For digital carriers up to 2.5 MSymbol/s: 53 dBW / 40 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDs™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain: 43.0 dBi
Tx XPD: >35 dB within 1 dB contour

G/T: 20.5 dB/K (typical)
Rx XPD: >21 dB within 1 dB contour

Remarks:
Production discontinued
Applicant: Channel Master International GmbH
Julius Moser Strasse 13
75179 Pforzheim
Germany
Tel: +49 7231 145 570
Fax: +49 7234 145 5710
mailto:m.pfrommer@channel-master-int.com

Certificate: EA-V007

VSAT: 62-18161-04

Diameter: 1.8 m

Approval date: 29-03-1996

Expiry date: 14-01-2005

System Description:
VSAT terminal consisting of Channel Master 1.8 m single piece front-fed offset antenna, equipped with ERA (compensated) feed system. Polarisation adjustment by rotation of entire antenna around boresight. RF equipment: single thread Comstream DT7000 Ku band tranceiver with 2 Watt power amplifier.

Models Available:
One standard configuration.

Maximum Allowed EIRP:
For digital carriers up to 2.5 MSymbol/s: 56.5 dBW / 40 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDS™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain: 46.5 dBi
Rx XPD: >35 dB within 1 dB contour

G/T: 24 dB/K (typical)
Rx XPD: >21 dB within 1 dB contour

Remarks:
Production discontinued
**Applicant:**
Channel Master International GmbH
Julius Moser Strasse 13
75179 Pforzheim
Germany

**Tel:** +49 7231 145 570
**Fax:** +49 7234 145 5710
mailto:m.pfrommer@channel-master-int.com

**Certificate:**
EA-V008

**VSAT:**
62-12161-11/12

**Diameter:**
1.2 m

**Approval date:**
22-04-1996

**Expiry date:**
14-01-2005

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**System Description:**
VSAT terminal consisting of Channel Master 1.2 m single piece front-fed offset antenna, equipped with ERA (compensated) feed system. Polarisation adjustment by rotation of entire antenna around boresight. RF equipment: single thread Fairchild RFT2000 Ku-Band transceiver with 2 or 4 Watt power amplifier.

**Models Available:**
Model 62-12161-11: 2 Watt SSPA
Model 62-12161-12: 4 Watt SSPA.

**Maximum Allowed EIRP:**
For digital carriers up to 2.5 MSymbol/s: 53 dBW / 40 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDs™ (EESS-502, issue 9 - rev 1, §6.1 refers).

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<th>Tx XPD</th>
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<tbody>
<tr>
<td>&gt;35 dB within 1 dB contour</td>
<td>&gt;21 dB within 1 dB contour</td>
</tr>
</tbody>
</table>

**Remarks:**
Production discontinued
**Applicant:**
Channel Master International GmbH
Julius Moser Strasse 13
75179 Pforzheim
Germany

Tel: +49 7231 145 570
Fax: +49 7234 145 5710
mailto:m.pfrommer@channel-master-int.com

**Certificate:**
EA-V009

**VSAT:**
62-18161-11/12

**Diameter:**
1.8 m

**Approval date:**
22-04-1996

**Expiry date:**
14-01-2005

**System Description:**
VSAT terminal consisting of Channel Master 1.8 m single piece front-fed offset antenna, equipped with ERA (compensated) feed system. Polarisation adjustment by rotation of entire antenna around boresight. RF equipment: single thread Fairchild RFT2000 Ku-Band transceiver with 2 or 4 Watt power amplifier.

**Models Available:**
Model 62-18161-11: 2 Watt SSPA
Model 62-18161-12: 4 Watt SSPA.

**Maximum Allowed EIRP:**
For digital carriers up to 2.5 MSymbol/s: 56.5 dBW / 40 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDs™ (EESS-502, issue 9 - rev 1, §6.1 refers).

**Tx Gain:** 46.5 dBi

**G/T:** 24 dB/K (typical)

**Tx XPD:**
>35 dB within 1 dB contour

**Rx XPD:**
>21 dB within 1 dB contour

**Remarks:**
Production discontinued
Applicant:
Gilat Satellite Networks Ltd.
P.O. Box 3397
Yegia Kapayim St.
79130 Kiryat Arye, Petach Tikva
Israel
Tel: +972 3 9252 386
Fax: +972 3 9213 299
mailto:menachema@gilat.com

Certificate:
EA-V010

VSAT:
GRF-090/02

Diameter:
0.9 m

Approval date:
29-04-1996

Pending

System Description:
VSAT terminal based on Fibo 0.9 m dual offset Gregorian antenna. Transmit equipment consists of single thread RF-unit Gilat LN001210 with 0.5 or 1.0 Watt power amplifier incorporated. Receive equipment: New JRC NJR2155A LNB.

Models Available:
Model GRF-090/02-0500KU12: 0.5 Watt SSPA
Model GRF-090/02-1000KU12: 1.0 Watt SSPA.

Maximum Allowed EIRP:
37 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDs™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain: 41.8 dBi
Tx XPD: >30 dB within 1 dB contour

G/T: 19.5 dB/K (typical)
Rx XPD: >30 dB within 1 dB contour

Remarks: None
System Description:
VSAT terminal based on Fibo 1.2 m dual offset Gregorian antenna. Transmit equipment consists of single thread RF-unit Gilat LN001210 with 0.5 or 1.0 Watt power amplifier incorporated. Receive equipment: New JRC NJR2155A LNB.

Models Available:
Model GRF-120/02-0500KU12: 0.5 Watt SSPA
Model GRF-120/02-1000KU12: 1.0 Watt SSPA

Maximum Allowed EIRP:
37 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, ATLANTIC BIRDS™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain:
43.7 dBi

G/T:
22.0 dB/K (typical)

Tx XPD:
>30 dB within 1 dB contour

Rx XPD:
>30 dB within 1 dB contour

Remarks: None
Applicant: Matra Marconi Space UK Ltd
Abbey Works, Titchfield
PO14 4QA Fareham, Hampshire
United Kingdom
Tel: +44 1705 708550
Fax: +44 1705 708499

Certificate: EA-V012
VSAT: MMS-PML-24
Diameter: 2.4 m
Approval date: 18-06-1996
Expiry date: 13-06-2008

System Description:
VSAT terminal based on Precision Metal E2412HP/02 antenna (2.4 m, two piece symmetrical, J hook front-fed). Transmit equipment consists of Skydata RF-unit 2401-AS-A in 2/3/8/16 Watt single thread or 8/16 Watt redundant configuration. Receive equipment: NJR2136S or Norsat 1200B LNB.

Models Available:
Model MMS-PML-2402: 2 Watt SSPA, Single Thread
Model MMS-PML-2403: 3 Watt SSPA, Single Thread
Model MMS-PML-2408: 8 Watt SSPA, Single Thread
Model MMS-PML-2416: 16 Watt SSPA, Single Thread
Model MMS-PML-2408-R: 8 Watt SSPA, Redundant
Model MMS-PML-2416-R: 16 Watt SSPA, Redundant

Maximum Allowed EIRP:
37 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, ATLANTIC BIRDS™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain: 48.3 dBi (typical)  
G/T: 25.5 dB/K (typical)

Tx XPD: >35 dB within 1 dB contour  
Rx XPD: >35 dB within 1 dB contour

Remarks: None
**Applicant:**
GEC Capital Spacenet Services, Inc  
1750 Old Meadow Road  
McLean, Virginia 22102  
USA  
Tel: +1 703 848 1300  
Fax: +1 703 848 1036  
mailto:pr@spacenet.com

**Certificate:**
EA-V015

**VSAT:**
Skydata Advantage - 0.98A

**Diameter:**
0.98 m

**Approval date:**
17-12-1996

**Expiry date:**
14-01-2005

---

**System Description:**
VSAT terminal based on Prodelin 0.98 m front-fed offset antenna model 1981. Transmit radio unit Gilat AN3422-01 with solid state 0.5 Watt SSPA. Receive equipment either Normarc LNB model 4000B or Comsat LNB model NJR2136H or NJR2536N.

**Models Available:**
One basic model with 0.5 Watt SSPA and either Normarc or Comsat LNB. Optional superhydrophobic coating and anti-icing system.

**Maximum Allowed EIRP:**
40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDs™ (EESS-502, issue 9 - rev 1, §6.1 refers).

**Tx Gain:**
41.0 dBi (typical)

**G/T:**
18.3 dB/K (typical)

**Tx XPD:**
>30 dB within 1 dB contour

**Rx XPD:**
>30 dB within 1 dB contour

**Remarks:**
No longer valid due to design changes affecting performance
Applicant:
GEC Capital Spacenet Services, Inc
1750 Old Meadow Road
McLean, Virginia 22102
USA

Tel: +1 703 848 1000
Fax: +1 703 848 1036
mailto:pr@spacenet.com

Certificate:
EA-V016

VSAT:
Skydata Advantage – 1.2 A

Diameter:
1.20 m

Approval date:
17-12-1996

Expiry date:
14-01-2005

System Description:
VSAT terminal based on Prodelin 1.2 m front-fed offset antenna model 1134. Transmit radio unit Gilat AN3422-01 with solid state 0.5 Watt SSPA. Receive equipment either Normarc LNB model 4000B or Comsat LNB model NJR2136H or NJR2536N.

Models Available:
One basic model with 0.5 Watt SSPA and either Normarc or Comsat LNB. Optional superhydrophobic coating and anti-icing system.

Maximum Allowed EIRP:
40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDs™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain:
42.7 dBi (typical)

G/T:
20.5 dB/K (typical)

Tx XPD:
>30 dB within 1 dB contour

Rx XPD:
>30 dB within 1 dB contour

Remarks:
No longer valid due to design changes affecting performance. Only antennas manufactured before 31/12/2004 meet the cross-polarisation discrimination of 30 dB @ -1 dB contour.
Applicant: 
Channel Master International GmbH
Julius Moser Strasse 13
75179 Pforzheim
Germany

Tel: +49 7231 145 570
Fax: +49 7234 145 5710
mailto:m.pfrommer@channel-master-int.com

Certificate: 
EA-V017

VSAT: 
62-12161-25/26/27/28

Diameter: 
1.2 m

Approval date: 
20-12-1996

Expiry date: 
14-01-2005

System Description:
VSAT terminal consisting of Channel Master 1.2 m single piece front-fed offset antenna, equipped with ERA (compensated) feed system. Polarisation adjustment by rotation of entire antenna around boresight. RF equipment: single thread S.S.E. ASAT-1214 Ku-Band transceiver with 2, 4, 8 or 16 Watt power amplifier.

Models Available:
Model 62-12161-25:  2 Watt SSPA
Model 62-12161-26:  4 Watt SSPA
Model 62-12161-27:  8 Watt SSPA
Model 62-12161-28:  16 Watt SSPA

Maximum Allowed EIRP:
For digital carriers up to 2.5 MSymbol/s: 53 dBW / 40 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, ATLANTIC BIRDS™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain:  
43.0 dBi

G/T:  
20.5 dB/K (typical)

Tx XPD:  
>35 dB within 1 dB contour

Rx XPD:  
>21 dB within 1 dB contour

Remarks:
Production discontinued
Applicant: Channel Master International GmbH
Julius Moser Strasse 13
75179 Pforzheim
Germany
Tel: +49 7231 145 570
Fax: +49 7234 145 5710
mailto:m.pfrommer@channel-master-int.com

Certificate: EA-V018

VSAT: 62-18161-25/26/27/28

Diameter: 1.8 m

Approval date: 20-12-1996
Expiry date: 14-01-2005

System Description:
VSAT terminal consisting of Channel Master 1.8 m single piece front-fed offset antenna, equipped with ERA (compensated) feed system. Polarisation adjustment by rotation of entire antenna around boresight. RF equipment: single thread S.S.E. ASAT-1214 Ku-Band transceiver with 2, 4, 8 or 16 Watt power amplifier.

Models Available
Model 62-18161-25: 2 Watt SSPA
Model 62-18161-26: 4 Watt SSPA
Model 62-18161-27: 8 Watt SSPA
Model 62-18161-28: 16 Watt SSPA

Maximum Allowed EIRP:
For digital carriers up to 2.5 MSymbol/s: 56.5 dBW / 40 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDs™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain: 46.5 dBi
Tx XPD: >35 dB within 1 dB contour

G/T: 24 dB/K (typical)
Rx XPD: >21 dB within 1 dB contour

Remarks:
Production discontinued
Applicant:  
Channel Master International GmbH  
Julius Moser Strasse 13  
75179 Pforzheim  
Germany  
Tel: +49 7231 145 570  
Fax: +49 7234 145 5710  
mailto:m.pfrommer@channel-master-int.com

Certificate:  
EA-V019

VSAT:  
62-24161-21/22/23/24

Diameter:  
2.4 m

Approval date:  
20-12-1996

Expiry date:  
14-01-2005

System Description:  
VSAT terminal consisting of Channel Master 2.4 m two piece front-fed offset antenna, equipped with ERA (compensated) feed system. Polarisation adjustment by rotation of entire antenna around boresight. RF equipment: single thread S.S.E. K-STAR 3040 Ku-Band transceiver with 2, 4, 8 or 16 Watt power amplifier.

Models Available:  
Model 62-24161-21:  2 Watt SSPA  
Model 62-24161-22:  4 Watt SSPA  
Model 62-24161-23:  8 Watt SSPA  
Model 62-24161-24:  16 Watt SSPA

Maximum Allowed EIRP:  
40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESAts, EUROBIRDS™, ATLANTIC BIRDS™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain:  
49.0 dBi

G/T:  
25.2 dB/K (typical)

Tx XPD:  
>30 dB within 1 dB contour

Rx XPD:  
>21 dB within 1 dB contour

Remarks:  
Production discontinued
Applicant: L.Teq Limited
Lapwing 440
Frimley Business Park
Frimley, Surrey
GU16 5SG
United Kingdom
Tel: +44 1276 686566
Fax: +44 1276 686550
mailto:dsmith@lteq.com

Certificate: EA-V020

VSAT: ALPHA/12POS

Diameter: 1.2 m

Approval date: 2-04-1997

Expiry date: 14-01-2005

System Description:
VSAT terminal based on Prodelin 1.2 m front-fed offset antenna model 1134 and EF-Data Transmit/Receive radio equipment. Single thread version only.

Models Available:
Either 2 / 4 Watt version with EF-Data KST-2000 or 8 / 16 Watt version with KST-12000. LNA Noise Temperature 85K-120K depending on options.

Maximum Allowed EIRP:
40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, ATLANTIC BIRDS™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain: 42.7 dBi (typical)
G/T: 19.7 dB/K (typical)

Rx XPD: >30 dB within 1 dB contour

Remarks:
No longer valid due to design changes affecting performance. Only antennas manufactured before 31/12/2004 meet the cross-polarisation discrimination of 30 dB @ -1 dB contour.
**Applicant:**
NEC Corporation, Yokohama, Japan
represented by:
NEC Benelux
Antareslaan 65 PO Box 3110
NL-2130 KC JE Hoofddorp
The Netherlands

Tel: +31 23 5548 548
Fax: +31 23 5548 547
mailto:alex.zehnder@nl.neceur.com

**Certificate:**
EA-V021

**VSAT:**
NEXTAR 0.9 m

**Diameter:**
0.9 m

**Approval date:**
02-04-1997

**Revision 1 Date:**
22-10-1999

**Expiry date:**
01-07-2008

**System Description:**
VSAT terminal based on Fibo 0.9 m dual offset Gregorian antenna model 58000. Integrated transmit/receive radio unit NEC E5847 with solid state 1 or 2 Watt SSPA. Indoor unit(s) of model D8436, E3096 or E8200.

**Models Available:**
One basic model with either 1 or 2 Watt SSPA.

**Maximum Allowed EIRP:**
37 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDs™ (EESS-502, issue 9 - rev 1, §6.1 refers).

**Tx Gain:**
41.4 dBi (typical at 14.25 GHz)

**G/T:**
19 dB/K (typical at 12.6 GHz)

**Tx XPD:**
>35 dB within 1 dB contour

**Rx XPD:**
>35 dB within 1 dB contour

**Remarks:** None
Applicant: Hughes Network Systems
Saxon Street, Linford Wood
Milton Keynes
MK14 6LD
United Kingdom
Tel: +44 1908 326250
Fax: +44 1908 221127
mailto:s.watts@eu.hns.com

Certificate: EA-V022

VSAT: PESX000 - 0.98 m

Diameter: 0.98 m

Approval date: 14-11-1997

Expiry date: 14-01-2005

System Description: VSAT terminal based on Prodelin 0.98 m front-fed offset antenna model 1981. MTI radio unit incorporating a 2 Watt SSPA.

Models Available: One basic model with 2 Watt SSPA. Optional superhydrophobic coating and anti-icing system.

Maximum Allowed EIRP: 40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1\textsuperscript{TM} and 0 dB/K for other HBs\textsuperscript{TM}, Ws, SESATs, EUROBIRDS\textsuperscript{TM}, ATLANTIC BIRDS\textsuperscript{TM} (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain: 41.0 dBi (typical)

G/T: 17.6 dB/K (typical)

Rx XPD: >30 dB within 1 dB contour

Remarks: No longer valid due to design changes affecting performance
Applicant: Hughes Network Systems  
Saxon Street, Linford Wood  
Milton Keynes  
MK14 6LD  
United Kingdom  
Tel: +44 1908 326250  
Fax: +44 1908 221127  
mailto:s.watts@eu.hns.com

Certificate: EA-V023

VSAT: PESX000 - 1.2 m

Diameter: 1.2 m

Approval date: 14-11-1997

Expiry date: 14-01-2005

System Description:
VSAT terminal based on Prodelin 1.2 m front-fed offset antenna model 1134. MTI radio unit incorporating a 2 Watt SSPA.

Models Available:
One basic model with 2 Watt SSPA. Optional superhydrophobic coating and anti-icing system.

Maximum Allowed EIRP:
40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDs™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain: 42.7 dBi (typical)

G/T: 19.3 dB/K (typical)

Tx XPD: >30 dB within 1 dB contour

Rx XPD: >30 dB within 1 dB contour

Remarks:
No longer valid due to design changes affecting performance. Only antennas manufactured before 31/12/2004 meet the cross-polarisation discrimination of 30 dB @ -1 dB contour.
Applicant:
Channel Master International GmbH
Julius Moser Strasse 13
75179 Pforzheim
Germany
Tel: +49 7231 145570
Fax: +49 7234 1455710
mailto:m.pfrommer@channel-master-int.com

Certificate:
EA-V024

VSAT:
62-18161-40/41/42/43

Diameter:
1.8 m

Approval date:
20-01-1998

Expiry date:
14-01-2005

System Description:
VSAT terminal consisting of Channel Master 1.8 m single piece front-fed offset antenna, equipped with ERA (compensated) feed system. Polarisation adjustment by rotation of entire antenna around boresight. RF equipment: single thread SierraCom 3100 Ku-Band transceiver with 1, 2, 4 or 8 Watt power amplifier.

Models Available
Model 62-18161-40: 1 Watt SSPA
Model 62-18161-41: 2 Watt SSPA
Model 62-18161-42: 4 Watt SSPA
Model 62-18161-43: 8 Watt SSPA

Maximum Allowed EIRP:
For digital carriers up to 2.5 MSymbol/s: 56.5 dBW / 40 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDs™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain: 46.5 dBi
G/T: 24 dB/K (typical)

Tx XPD: >35 dB within 1 dB contour
Rx XPD: >21 dB within 1 dB contour

Remarks:
Production discontinued
Applicant: Channel Master LLC.
1315 Industrial Park Dr.
Smithfield, NC 27577
USA
Tel: +1 919 989 1701
Fax: +1 919 989 2200
mailto:pgardner@cmnc.com

Certificate: EA-V025

VSAT: 62-12356-51/52

Diameter: 1.2 m

Revision 2 date: 24-01-2000

Revision 3 date: 18-12-2001

Expiry date: 14-01-2005

System Description:
VSAT terminal based on Channel Master 1.2 m front-fed offset antenna, long focal length, light weight version. Gilat RF-equipment Model AN3422-01.

Models Available:
Two models: 62-12356-51 with 0.5 Watt SSPA and 62-12356-52 with 1 Watt SSPA.

Maximum Allowed EIRP:
40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDS™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain: 43.3 dBi (typical)
G/T: 21.0 dB/K (typical)

Rx XPD: >30 dB within 1 dB contour

Remarks for revision 3 approval:
The junction block for the feed subsystem has been replaced by a new design Die-Cast Terminal Block and the Az-El Cap Mount has been replaced with a new two piece clamp. Production discontinued.
Applicant:
Scientific Atlanta
420 North Wickham Road
Melbourne, Florida 32935
USA
Tel: +1 407 2553000
Fax: +1 407 2593942
mailto:nick.restivo@atl.viasat.com

Certificate:
EA-V026

VSAT:
SkyRelay 3000-098

Diameter:
0.98 m

Approval date:
22-10-1998

Expiry date:
14-01-2005

System Description:
VSAT terminal based on Prodelin 0.98 m front-fed offset antenna model 1981. Transmit radio unit Scientific Atlanta Model 6605 with solid state 0.8 Watt SSPA. Receive equipment: LNB either Norsat (4509B or 1210LB) or Nichimen (NJR2154HA or NJR2536S).

Models Available:
One basic model with 0.8 Watt SSPA and either PLL or DRO type LNB from Norsat or Nichimen. Optional superhydrophobic coating and anti-icing system.

Maximum Allowed EIRP:
40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDs™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain:
41.0 dBi (typical)

G/T:
17.8 dB/K (typical)

Tx XPD:
>30 dB within 1 dB contour

Rx XPD:
>30 dB within 1 dB contour

Remarks:
EIRP adjustment by insertion of fixed waveguide attenuators; minimum step size 2 dB.

No longer valid due to design changes affecting performance.
Applicant: Scientific Atlanta
420 North Wickham Road
Melbourne, Florida 32935
USA
Tel: +1 407 2553000
Fax: +1 407 2593942
mailto:nick.restivo@atl.viasat.com

Certificate: EA-V027

VSAT: SkyRelay 3000-120

Diameter: 1.2 m

Approval date: 22-10-1998

Expiry date: 14-01-2005

System Description:
VSAT terminal based on Prodelin 1.2 m front-fed offset antenna model 1134. Transmit radio unit Scientific Atlanta Model 6605 with solid state 0.8 Watt SSPA. Receive equipment: LNB either Norsat (4509B or 1210LB) or Nichimen (NJR2154HA or NJR2536S).

Models Available:
One basic model with 0.8 Watt SSPA and either PLL or DRO type LNB from Norsat or Nichimen. Optional superhydrophobic coating and anti-icing system.

Maximum Allowed EIRP:
40 dBW/4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, ATLANTIC BIRDS™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain: 42.7 dBi (typical)

G/T: 19.6 dB/K (typical)

Tx XPD: >30 dB within 1 dB contour

Rx XPD: >30 dB within 1 dB contour

Remarks:
EIRP adjustment by insertion of fixed waveguide attenuators; minimum step size 2 dB.

No longer valid due to design changes affecting performance. Only antennas manufactured before 31/12/2004 meet the cross-polarisation discrimination of 30 dB @ -1 dB contour.
Applicant: Scientific Atlanta
420 North Wickham Road
Melbourne, Florida 32935
USA
Tel: +1 407 2553000
Fax: +1 407 2593942
mailto:nick.restivo@atl.viasat.com

Certificate: EA-V028

VSAT: SkyRelay 3000-180

Diameter: 1.8 m

Approval date: 22-10-1998

Expiry date: 14-01-2005

System Description:
VSAT terminal based on Prodelin 1.8 m front-fed offset antenna model 1194. Transmit radio unit Scientific Atlanta Model 6605 with solid state 0.8 Watt SSPA. Receive equipment: LNB either Norsat (4509B or 1210LB) or Nichimen (NJR2154HA or NJR2536S).

Models Available:
One basic model with 0.8 Watt SSPA and either PLL or DRO type LNB from Norsat or Nichimen. Optional superhydrophobic coating and anti-icing system.

Maximum Allowed EIRP:
40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, ATLANTIC BIRDS™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain: 46.5 dBi (typical)  G/T: 23.1 dB/K (typical)

Tx XPD: >30 dB within 1 dB contour  Rx XPD: >30 dB within 1 dB contour

Remarks:
EIRP adjustment by insertion of fixed waveguide attenuators; minimum step size 2 dB.
Applicant:  
Scientific Atlanta  
420 North Wickham Road  
Melbourne, Florida 32935  
USA  
Tel: +1 407 2553000  
Fax: +1 407 2593942  
mailto:nick.restivo@atl.viasat.com

Certificate:  
EA-V029  
VSAT:  
SkyRelay 3000-240  
Diameter:  
2.4 m  
Approval date:  
15-12-1998  
Expiry date:  
01-07-2008

System Description:  
VSAT terminal based on Prodelin 2.4 m front-fed offset antenna model 1244, versions 930, 931 or 933 only. Transmit radio unit Scientific Atlanta Model 6605 with solid state 0.8 Watt SSPA. Receive equipment: LNB either Norsat (4509B or 1210LB) or Nichimen (NJR2154HA or NJR2536S).

Models Available:  
One basic model with 0.8 Watt SSPA and either PLL or DRO type LNB from Norsat or Nichimen. Optional superhydrophobic coating and anti-icing system.

Maximum Allowed EIRP:  
40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDs™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain:  
48.8 dBi (typical)  
Rx XPD:  
>30 dB within 1 dB contour

G/T:  
25.5 dB/K (typical)  
Rx XPD:  
>30 dB within 1 dB contour

Remarks:  
EIRP adjustment by insertion of fixed waveguide attenuators; minimum step size 2 dB.
Applicant: Channel Master International GmbH
Julius Moser Strasse 13
75179 Pforzheim
Germany
Tel: +49 7231 145 570
Fax: +49 7234 145 5710
mailto:m.pfrommer@channel-master-int.com

Certificate: EA-V030
VSAT: 62-12456-53/54
Diameter: 1.2 m
Approval date: 28-10-1998
Revision 1 date: 24-01-2000
Expiry date: 14-01-2005

System Description:
VSAT terminal based on Andrew Corporation 1.2 m front-fed offset antenna, long focal length, heavy-duty version. SSE K-STAR RF-equipment.

Models Available:
Two models: 62-12456-53 with 2 Watt SSPA and 62-12456-54 with 4 Watt SSPA.

Maximum Allowed EIRP:
40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDs™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain:
43.3 dBi (typical)

G/T:
21 dB/K (typical)

Tx XPD:
>30 dB within 1 dB contour

Rx XPD:
>30 dB within 1 dB contour

Remarks:
Production discontinued
Eutelsat S.A. Type Approval Summary Sheet

Applicant: Channel Master LLC
1315 Industrial Park Dr.
Smithfield, NC 27577
USA
Tel: + 1 919 989 1701
Fax: + 1 919 989 2200
mailto:pgardner@cmnc.com

Certificate: EA-V031

VSAT:
62-96052-01
62-96056-01

Diameter: 0.96 m

Approval date: 29-10-1999

Revision 1 date: 19-05-2000

Revision 2 date: 18-12-2001

Expiry date: 14-01-2005

System Description:
VSAT terminal based on Channel Master 0.96 m front-fed offset antenna, long focal length, light/medium duty version. GILAT RF Tx-equipment.

Models Available:
Two models: Light duty mount 62-96052-01 with 0.5 Watt SSPA and medium duty mount 62-96056-01 with either 0.5 or 1 Watt SSPA.

Maximum Allowed EIRP:
40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDs™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain:
41.2 dBi (typical at 14.25 GHz)

G/T:
19.4 dB/K (typical at 11.95 GHz)

Tx XPD:
>30 dB within 1 dB contour

Rx XPD:
>30 dB within 1 dB contour

Remarks for revision 2 approval:
The junction block for the feed subsystem has been replaced by a new design Die-Cast Terminal Block and the Az-El Cap Mount has been replaced with a new two piece clamp. Production discontinued.
**Applicant:**
NEC Corporation, Yokohama, Japan
represented by:
NEC Benelux
Antareslaan 65 PO Box 3110
NL-2132 KC JE Hoofddorp
The Netherlands
Tel: +31 23 5548 481
Fax: +31 23 5548 588
mailto:alex.zehnder@nl.neceur.com

**Certificate:**
EA-V033

**VSAT:**
NEXTAR 0.98 m

**Diameter:**
0.98 m

**Approval date:**
31-05-2000

**Expiry date:**
14-01-2005

**System Description:**
VSAT terminal based on single offset Prodelin antenna mod. 1981. Integrated transmit/receive radio unit NEC G3606 with solid state 1 or 2 Watt SSPA. Indoor unit(s) of model D8436 (Nextar IV or V), G3700 (BOD).

**Models Available:**
One basic model with either 1 or 2 Watt SSPA.

**Maximum Allowed EIRP:**
40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDs™ (EESS-502, issue 9 - rev1, §6.1 refers).

<table>
<thead>
<tr>
<th><strong>Tx Gain</strong></th>
<th><strong>G/T</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>40.9 dBi (typical at 14.25 GHz)</td>
<td>18.3 dB/K (typical at 12.6 GHz)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Tx XPD</strong></th>
<th><strong>Rx XPD</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;30 dB within 1 dB contour</td>
<td>&gt;27 dB within 1 dB contour</td>
</tr>
</tbody>
</table>

**Remarks:**
No longer valid due to design changes affecting performance
Applicant: Wireless Innovation Ltd  
Unit D2 - Churcham Business Park  
Churcham  
Gloucestershire GL2 8AA  
United Kingdom

Tel: +44 08454 66 00 11  
Fax: +44 08717 84 00 11  
mailto:tony.martin@wi-ltd.net

Certificate: EA-V034

VSAT: CTL3096

Diameter: 0.96 m

Approval date: 31-05-2000

Expiry date: 16-06-2008

System Description: VSAT terminal based on Andrew 0.96 m front-fed antenna, long focal length, medium duty version. TSAT AS RF-equipment.

Models Available: One standard configuration medium duty mount 62-96056-01 with 0.5 W RF-unit.

Maximum Allowed EIRP: 40 dBW / 4kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDs™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain: 41.2 dBi (typical at 14.25 GHz)  
G/T: 19.7 dB/K (typical at 12.75 GHz)

Tx XPD: >30 dB within 1 dB contour  
Rx XPD: >30 dB within 1 dB contour

Applicant: Precision Antennas
Masons Road
Stratford-upon-Avon
Warwickshire CV37 9NU
United Kingdom
Tel: +44 1789 266 131
Fax: +44 1789 298 497
mailto:chriscoc@andrew.com

Certificate: EA-V035
VSAT: EOT18KUE/T
Diameter: 1.8 m
Standard: M
Approval date: 20-06-2000
Expiry date: 13-06-2008

System Description:
VSAT terminal based on Precision Antenna 1.8 Ku band single offset antenna. Metallic main reflector. TSAT AS 0.5 Watt RF equipment.

Configurations:
One standard configuration.

Maximum Allowed EIRP:
40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDS™ (EESS-502, issue 9 - rev 1, §6.1 refers).

<table>
<thead>
<tr>
<th>Tx Gain</th>
<th>G/T</th>
</tr>
</thead>
<tbody>
<tr>
<td>46.4 dBi (typical at 14.25 GHz)</td>
<td>22.7 dB/K (typical)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tx XPD</th>
<th>Rx XPD</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;35 dB within 1 dB contour</td>
<td>&gt;27 dB within 1 dB contour</td>
</tr>
</tbody>
</table>

Remarks:
Frequency: 14.00 - 14.25 GHz.
System Description:
VSAT maritime terminal consisting of Sea Tel 1.2 m dual offset gregorian antenna with single piece fiber glass radome, with three axis stabilization platform and a conical scanning tracking. The transceiver is a Ku band CODAN 5900.

Models Available:
One standard model 4996 T 7/8w. The CODAN 5900 transceiver is available with 2, 4, 8 and 16 Watt power SSPA.

Maximum Allowed EIRP:
40 dBW/4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESAT, EUROBIRD™, ATLANTIC BIRD™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Gain: 41.8 dBi (typical)  G/T: 18.4 dB/K (typical at 11.4 GHz)
Tx XPD: >30 dB within 0.2°  Rx XPD: >30 dB within 0.2° dB

Remarks:
Tx frequency band: 13.75 – 14.5 GHz.

Type approval expired because the original type approved data are no longer valid.
**System Description:**
VSAT terminal based on single offset Prodelin 1.2m antenna model 1132. Gilat 1 W Solid State Amplifier type approved EODU-001 or EODU-002.

**Models available:**
One standard configuration.

**Maximum Allowed EIRP:**
40 dBW / 4 KHz per carrier at the satellite receive contours of -0.5 dB/K HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDS™ (EESS-502, issue 9 - rev 1, §6.1 refers).

<table>
<thead>
<tr>
<th>Tx Frequency:</th>
<th>14.00 - 14.50 GHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rx Frequency:</td>
<td>10.95 - 12.50 GHz</td>
</tr>
<tr>
<td>Tx Gain:</td>
<td>43.0 dBi (typical at 14.25 GHz)</td>
</tr>
<tr>
<td>G/T:</td>
<td>20.5 dB/K (typical at 12.50 GHz)</td>
</tr>
<tr>
<td>Tx XPD:</td>
<td>&gt;30 dB within 1 dB contour</td>
</tr>
<tr>
<td>Rx XPD:</td>
<td>&gt;30 dB within 1 dB contour</td>
</tr>
</tbody>
</table>

**Remarks:** None
Applicant: Andrew Corporation (previously Channel Master LLC)  
1315 Industrial Park Drive  
Smithfield, N.C. 27577  
USA  
Tel: +1 919 934 9711  
Fax: +1 919 989 2200  
mailto:peter.gardner@andrew.com

Certificate: EA-V048

Antenna: 62-12356-11

Diameter: 1.2 m

Standard: M

Approval date: 07-01-2005

Expiry date: 16-06-2008

System Description: VSAT terminal based on Andrew 1.2 m front-fed offset antenna, long focal length, Class I version. Gilat RF-TX equipment Model AN3422-01.

Models Available: One model only: Class I 62-12356-11 with either 0.5 or 1 Watt SSPA.

Maximum Allowed EIRP: 40.0 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDs™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Frequency: 14.00 - 14.50 GHz

Rx Frequency: 10.95 - 12.75 GHz

Tx Gain: 43.3 dBi (typical at 14.25 GHz)

G/T: 21 dB/K (typical at 12.50 GHz)

Tx XPD: >30 dB within -1 dB contour

Rx XPD: >30 dB within -1 dB contour

Remarks: The junction block for the feed subsystem is using a Die-Cast Terminal Block. Class I is designed for lightweight ODUs up to 2.3 kg.
Applicant:
Andrew Corporation (previously Channel Master LLC)
1315 Industrial Park Drive
Smithfield, N.C. 27577
USA
Tel: +1 919 934 9711
Fax: +1 919 989 2200
mailto:peter.gardner@andrew.com

Certificate:
EA-V049

Antenna:
62-12456-01

Diameter:
1.2 m

Standard:
M

Approval date:
07-01-2005

_EXPIRY DATE:
16-06-2008

System Description:
VSAT terminal based on Andrew 1.2 m front-fed offset antenna, long focal length, Class III version. Gilat RF-TX equipment Model AN3422-01.

Models Available:
One model only: Class III 62-12456-01 with either 0.5 Watt or 1 Watt SSPA.

Maximum Allowed EIRP:
40.0 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDs™, ATLANTIC BIRDs™ (EESS-502, issue 9 - rev 1, §6.1 refers).

Tx Frequency:
14.00 - 14.50 GHz

Rx Frequency:
10.95 - 12.75 GHz

Tx Gain:
43.3 dBi (typical at 14.25 GHz)

G/T:
21 dB/K (typical at 12.50 GHz)

Tx XPD:
>30 dB within -1 dB contour

Rx XPD:
>30 dB within -1 dB contour

Remarks:
Class III is designed for ODUs up to 11 kg.
Applicant: ASC Signal
(previously Andrew Corporation)
620 North Greenfield Parkway,
Garner, N.C. 27529
USA
Tel: +1 919 329 8721
Fax: +1 919 329 8701
mailto: peter.gardner@ascsignal.com

Certificate: EA-V050

Antenna: 62-96056-01

Diameter: 0.96 m

Standard: M

Approval date: 07-01-2005

Expiry date: 01-10-2008

System Description:
VSAT terminal based on Andrew 0.96 m front-fed offset antenna, long focal length, Class II version. Gilat RF-TX equipment Model AN3422-01

Models Available:
One model only: Class II 62-96056-01 with either 0.5 or 1 Watt SSPA.

Maximum Allowed EIRP:
41.0 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502, Issue 11 - Rev.0, § 6.1 refers).

Tx Frequency: 14.00 - 14.50 GHz
Rx Frequency: 10.95 - 12.75 GHz

Tx Gain: 41.2 dBi (typical at 14.25 GHz)
G/T: 19.4 dB/K (typical at 12.50 GHz)

Tx XPD: >30 dB within -1 dB contour
Rx XPD: >30 dB within -1 dB contour

Remarks: The junction block for the feed subsystem is using a Die-Cast Terminal Block Class II is designed for ODUs up to 5.4 kg
Applicant: ASC Signal (previously Andrew Corporation)  
620 North Greenfield Parkway, Garner, N.C. 27529 USA  
Tel: +1 919 329 8721  
Fax: +1 919 329 8701  
mailto: peter.gardner@ascsignal.com

Certificate: EA-V051

Antenna: 62-12362-01

Diameter: 1.2 m

Standard: M

Approval date: 07-01-2005

Expiry date: 01-10-2008

System Description: VSAT terminal based on ASC Signal Corporation 1.2 m front-fed offset antenna, long focal length, Class II version. Gilat RF-TX equipment Model AN3422-01

Models Available: One model only: Class II 62-12362-01 with 0.5 W or 1 W SSPA.

Maximum Allowed EIRP: 45.3 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502, Issue 11 - Rev.0, § 6.1 refers).

Tx Frequency: 14.00 - 14.50 GHz  
Rx Frequency: 10.95 - 12.75 GHz

Tx Gain: 43.3 dBi (typical at 14.25 GHz)  
G/T: 21 dB/K (typical at 12.50 GHz)

Tx XPD: >30 dB within -1 dB contour  
Rx XPD: >30 dB within -1 dB contour

Remarks: The junction block for the feed subsystem is using a Die-Cast Terminal Block. Class II is designed for ODUs up to 5.4 kg
Applicant:
ASC Signal
(previously Andrew Corporation)
620 North Greenfield Parkway,
Garner, N.C. 27529
USA
Tel: +1 919 329 8721
Fax: +1 919 329 8701
mailto: peter.gardner@ascsignal.com

Certificate:
EA-V054

Antenna:
1.2 m RXTx Class I
MIL-12QDKU-1

Diameter:
1.2 m

Standard:
M

Approval date:
20-03-2008

Expiry date:
09-09-2015

System Description:
Quick Deploy VSAT terminal for low and medium rate digital traffic. Front fed offset configuration, feed with mode generator and rotary joint. Single piece 1.2 m SMC reflector. Two port die-cast OMT. Az/El Mount with steel boom arm. Collapsible tripod. 30 W ND Satcom RFT 5000 KU-BAND, Invacom SPV-30 SM LNB.

Configurations:
One standard configuration type MIL-12QDKU-1 with mode generator and rotary joint.

Maximum Allowed EIRP:
42.6 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers).

Tx Frequency:
14.00 – 14.50 GHz
Tx Gain:
43.8 dBi (typical at 14.25 GHz)
Tx XPD:
>30 dB within the mainlobe -1 dB contour

Rx Frequency:
10.70-12.75 GHz
G/T:
21.5 dB/K (typical at 11.70 GHz)
Rx XPD:
>26 dB within the mainlobe -1 dB contour

Remarks:
Class I is designed for operating with an integrated transceiver assembly (or BUC+LNB assemblies) weighting a maximum of 1.7 Kg.

To be operated for maximum wind speeds of up to 50 Km/h.